

and spirit of the invention, the scope of which is defined in the claims and their equivalents.

What is claimed is:

1. A vacuum cleaner to collect dust, the vacuum cleaner comprising:

a cyclone dust collector, the cyclone dust collector comprising:

a case including a bottom;

a first cover couplable to the case, the first cover configured to selectively open and close the bottom of the case; and

a grill assembly configured to be selectively detachable from the cyclone dust collector, so that the collected dust is removed from the grill assembly as the grill assembly detaches from the cyclone dust collector.

2. The vacuum cleaner of claim 1, wherein:

the case further includes an upper part and, the grill assembly is configured to be pulled out of the upper part of the case to be detached from the upper part of the case.

3. The vacuum cleaner of claim 1, wherein:

the case further includes an upper part, the vacuum cleaner further comprises a second cover configured to cover the upper part of the case, and the grill assembly is selectively couplable to and detachable from the second cover.

4. The vacuum cleaner of claim 3, wherein:

the second cover includes a cleaning part, and the grill assembly removes the collected dust adhered to a surface of the grill assembly using the cleaning part while the grill assembly is detaching from the second cover.

5. The vacuum cleaner of claim 4, wherein the cleaning part is provided to protrude from a bottom surface of the second cover.

6. The vacuum cleaner of claim 3, wherein the second cover includes an opening through which the grill assembly passes.

7. The vacuum cleaner of claim 3, wherein the grill assembly includes a locking part configured to lock the grill assembly to the second cover while the grill assembly is selectively coupled to the second cover, and the second cover includes a locking hole into which the locking part is inserted to lock the grill assembly.

8. The vacuum cleaner of claim 3, wherein the second cover includes a microfilter configured to filter the collected dust from air.

9. The vacuum cleaner of claim 1, wherein:

the first cover includes a locking part to lock the first cover to the grill assembly, and

the grill assembly includes a locking hole into which the locking part is inserted to lock the first cover.

10. The vacuum cleaner of claim 9, wherein the first cover further includes a sliding hole through which the locking part passes to be inserted into the locking hole.

11. The vacuum cleaner of claim 10, wherein the locking part moves in a radial direction in the sliding hole when the locking part is pressed by the grill assembly to lock the first cover.

12. The vacuum cleaner of claim 10, wherein the first cover further includes an elastic member configured to provide the locking part with an elastic force.

13. The vacuum cleaner of claim 12, wherein:

the locking part is moved in one direction when the locking part is pressed by the grill assembly to lock the first cover, and

the locking part is moved in the other direction by the elastic force of the elastic member to return to an original position thereof when a force applied to the locking part to unlock the first cover.

14. The vacuum cleaner of claim 1, wherein the first cover is opened when the grill assembly is rotated in one direction.

15. The vacuum cleaner of claim 1, wherein, when the first cover is coupled to the case, the first cover is coupled by a hinge to the case.

16. A cyclone dust collector comprising:

a case including an inlet through which air is introduced; a first cover configured to be positioned at a first side of the case, the first cover configured to selectively open and close the first side of the case;

a second cover configured to be positioned at a second side of the case; and

a grill configured to be selectively accommodated in the case and couple to the first cover and the second cover while the grill is accommodated in the case;

wherein, as the grill is released from the second cover, the grill is released from the first cover.

17. The cyclone dust collector of claim 16, wherein the first cover opens the first side of the case when the coupling between the grill and the first cover is released.

18. The cyclone dust collector of claim 16, wherein the first cover includes a locking part configured to be elastically supported to lock the grill, and the grill includes a locking hole into which the locking part is inserted to lock the grill.

19. The cyclone dust collector of claim 16, wherein the second cover includes a cleaning part configured to remove dust adhered to a surface of the grill when the grill is pulled out of the case.

20. The cyclone dust collector of claim 16, wherein the grill is provided to be selectively detachable from the case, the first cover, and the second cover.

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